

Giclee Coater

Model 1371



Owner's Operation Manual



INTRODUCTION

GICLEE COATER

Thank you for purchasing the Giclee Coater by Neschen Accutech - Model 1371. As you become familiar with the coater, you will appreciate its high quality of workmanship and excellence in its engineering design.

By following the guidelines for proper care and use of the Giclee Coater you can depend on maximizing your return on investment.

The purpose of this manual is to describe installation, operation and maintenance of your Giclee Coater to enhance and protect your fine art ink jet prints, and other flexible graphics with professional results.

Please read and fully understand the entire manual before using your coater.



**Figure 1: Giclee Coater
Model 1371**

STATEMENT OF INTENDED USE

The Giclee Coater is ETL approved to UL standards and CE approved to European standards. The unit has been designed to be used with UltraCoat Liquid Clear Coat and Cleaner made by Neschen Accutech. When used with these products, you are able to laminate a variety of flexible substrates from 5 to 30 mil thickness

We highly recommend using only UltraCoat Liquid Clear Coat and Cleaner, made by Neschen Accutech for maximum performance from your new coater.

The Giclee Coater uses a unique three-step process to coat the graphics and clean the system without having to manually scrub the Meyer Bar Roller. Depending on the type of inks and materials you use, you may need to **seal** the printed media prior to coating. The materials used with the Giclee Coater are:

- UltraCoat Liquid Sealer (for non water-fast media)
- UltraCoat Liquid Clear Coat
- UltraCoat Liquid Cleaner
- Neutralizer (Water)

WARNING: This coater is designed for single sided laminating. Use for other than these purposes may cause damage to the coater or physical harm to the user.

WARNING: Any unauthorized changes or modifications to this unit without prior written approval will void the user's warranty and will transfer health and safety obligations to the user.

LIABILITY STATEMENT

Details provided in this manual are based on the most current information available. However, these details may be subject to change at any time. Neschen

Accutech retains the right to make changes to the construction or design of our products without accepting any responsibility for modifying earlier versions previously delivered.

CAUTION: Pay attention to all passages marked this way. This information is vital to preventing user injury and/or damage to the unit. Failure to follow this information could void the user's warranties and transfer all safety obligations to the user.

WORKSPACE & INSTALLATION

WORKSPACE

Place the unit in a well lit, dust free area with plenty of room for laying out wet prints. **The coater should be level.** Make sure to place the coater in an area with adequate ventilation. Do not place the unit near open flames, abnormally hot, humid or cold, damp conditions. **Drying racks are suggested to aid in the drying of your prints.** These may be obtained from 3rd party after market suppliers. Two examples are Dick Blick Art Materials – www.dickblick.com and Saturn Rack Company – www.saturnrack.com.

Space should be available so that there is sufficient feed-in/out area, as well as space in which to place tables for drying and trimming.

UNPACKING

The Giclee Coater is shipped in two containers. The largest container holds the coating unit, a bag of hardware, and this manual. The smaller container holds the stand assembly, assembly instructions, the casters, and a bag of hardware. It is recommended that you assemble the stand first.

MATERIALS NEEDED FOR UNPACKING & SET UP:

Razor blade to cut taped boxes
4" adjustable wrench

SETTING UP

- Assemble the stand.
- Place the Giclee Coater over the matching holes in the leg support brackets.
- Fasten the coater to the brackets using screws and washers provided.
- Fasten the storage shelf to the stand.
- Attach the drain hose w/clamp & tighten
- Apply nip position decals (see addendum)

ELECTRICAL REQUIREMENTS



Follow power installation set up Instructions below before connecting the supply power.

Check voltage selector switch position before connecting the supply power. The voltage selector switch is located above the power inlet. Use a straight blade screwdriver to slide voltage selector switch all the way right or left to match the supply power. The correct supply voltage should be visible. Failure to have the voltage selector switch in the correct position could result in poor performance or unit damage.

CAUTION: We recommend that the coater be connected to an electrical circuit with a Ground Fault Interrupter (GFI) circuit breaker.

SAFETY

The Giclee Coater is designed to use water-based lacquer only. Use of solvent based or other manufacturer's lacquers may damage the machine and void the machines warranty.

WARNING: *Whenever using any equipment, always follow manufacturers' instructions to ensure safe operation.*

Become familiar with all operational controls and ensure that all pre-start settings have been established.

Comply with all safety warning signs, labels and instructions.

Ensure that prior to clean-up, eye protection, clean towels, rubber gloves and ventilation devices (such as fans) are available where appropriate.

Whenever filling or emptying the lacquer tray, eye protection should be worn. Ensure that an approved eyewash station is adjacent to the coater.

Avoid contact with uncured lacquer. In case of skin contact, use soap and water to clean the skin.

DANGER: Do not use solvents to remove lacquer from the skin. Solvents can cause lacquer to penetrate the skin.

CAUTION: Prior to handling any chemical product, read the product label for safe handling information. Also review MSDS sheets prior to chemical use to gain a complete understanding of health, safety and environmental information. Observe manufacturers recommendations when handling chemicals.

To obtain MSDS Sheets for any Neschen Accutech products, contact Technical Services at (888) 490-4232

SAFETY COVERS

The two end safety covers (blue) protect the user from the mechanism used to power the roller assembly. Only qualified maintenance or safety personnel should remove the covers for maintenance upkeep or repair.

DANGER: FOR ANY SERVICING, ALWAYS UNPLUG THE UNIT BEFORE REMOVING SAFETY COVERS.

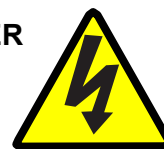
SAFETY SYMBOLS

ROTATING PARTS: RISK OF INJURY



WARNING: Hazardous moving parts. Keep fingers and other body parts away.

ELECTRICAL PARTS: DANGER OF BEING INJURED BY ELECTRICITY



DANGER: DO NOT ATTEMPT Access TO this area because of the risk of injury by high voltage. Only authorized maintenance OR service technicians SHOULD ATTEMPT repair OF this AREA.

PREVENTIVE MEASURES

Be careful not to feed objects such as staples, paper clips and rough or abrasive materials into the nip opening. Keep objects such as tools, rulers, pens, markers or knives clear of the nip opening.

DO NOT leave these items on the table to avoid accidentally feeding them into the machine.

FEATURES

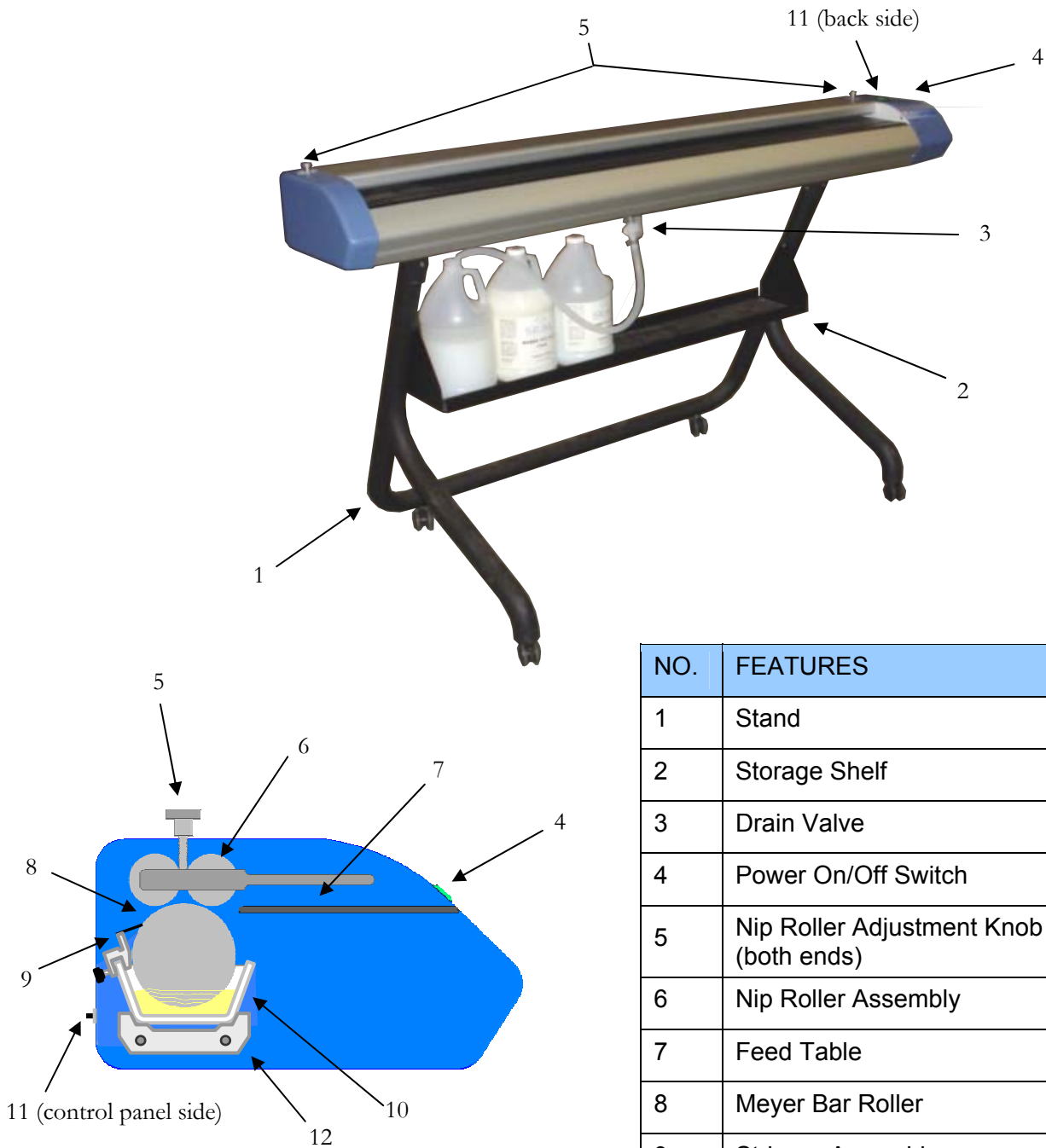


Figure 2 Giclee Coater Features

NO.	FEATURES
1	Stand
2	Storage Shelf
3	Drain Valve
4	Power On/Off Switch
5	Nip Roller Adjustment Knob (both ends)
6	Nip Roller Assembly
7	Feed Table
8	Meyer Bar Roller
9	Stripper Assembly
10	Lacquer Tray
11	Voltage Selector Switch
12	Lacquer Tray Bracket

CONTROLS AND OPERATION

POWER ON/OFF

The function of the Power On/Off switch is to enable the coater for operations.

NIP ROLLER ADJUSTMENT KNOBS

The two Nip Roller Adjustment Knobs control the gap between the Meyer Bar Roller and the Nip Rollers. The gap can be adjusted from a maximum of .06" (clockwise, until tight) to a minimum of .04" by turning both knobs counterclockwise one full turn.

The chart below reflects typical settings. The setting position of 1 is a .06" gap (fully tightened). Settings 2-4 are alternate adjustment positions, set by turning the knobs counterclockwise, up to a $\frac{3}{4}$ revolution from the tightened position.

NOTE: Any additional rotation of the knobs counterclockwise beyond one full turn has no affect.

SUGGESTED NIP SETTINGS	
MEDIA	SETTING
Artist Canvas 25 to 35 mil	1
Artist Canvas 17 to 24 mil	2
Artist Canvas 10 to 16 mil	3
Fine Art Papers	3
PSV Cast vinyl	4
PSV Calandared vinyl	4
Wet Strength Paper	4
The settings are suggested only. Final setting may be different according to materials used and manufacturing tolerances. Seal suggests logging a reference table according to materials you used.	

OPERATION

MATERIALS NEEDED

Prior to operation, make certain the following materials are available:

- Face shield or safety glasses
- Absorbent towels – clean, lint-free and disposable.
- Rubber gloves

PRE-START CHECKS

Plug the coater into a standard outlet (see page 7 for model voltage requirements) and turn the coater ON to start the rollers turning.

If installed, remove print stripper (white) blocks and fill the lacquer tray, being sure not to exceed the lines labeled "Do Not Fill Above" located inside the tray.

NOTE: The lacquer will evaporate over time. Have plenty of lacquer available at all times.

Allow sufficient time (a few minutes) before starting operations to ensure the Meyer Bar Roller gets evenly coated with lacquer. There will be a visible white film over the entire width of the Roller when coated.

Once the Meyer Bar Roller is thoroughly coated and there are NO BUBBLES attach the stripper blocks. You may begin operations.

DANGER: Do not operate the coater with the roller cover open.

PROCESSING IMAGES

It is important to "batch" your jobs and run them one after the other. (Note: the coating can evaporate & thicken if not used for more than 1 hour. See trouble shooting guide if this occurs).

1. Place the image face down and feed it into the nip roller assembly with a smooth and consistent approach.. **TIP: if possible leave a 1 in. border around the image to be coated to prevent a build up of lacquer on the edge of the image.**

2. As the image is fed beneath the nip guide rollers, lacquer is applied from the Meyer Bar Roller to the face of the image.

NOTE: The image may not propel itself through the coater on its own. You may need to assist the print through the coater by pulling on the image as it exits the coater.

3. As the image exits the rollers, grab the top edge on each side and gently pull up in a smooth and consistent motion, being careful not to cause the image to hesitate or be pulled to fast through the coater. Care should also be taken not to drip coating on the coater itself. Larger images may require someone on the exit side of the coater pulling up and away from the coater.
4. Turn the image over, coated side up and lay flat on a drying table. TIP: using an oversized soft substrate to lay the print on and tacking the edges down can eliminate uneven coating of the edges.

NOTE: The coating should be dry to the touch in 15 to 30 minutes, but may not be fully cured for up to an additional 48 hours.

CLEANING THE COATER

GENERAL CLEANING INSTRUCTIONS

Do not use spray-on cleaners, except as recommended by Neschen Accutech.

Do not immerse any part of the coater in water or other liquids.

Do not use an abrasive cleaner, which can damage painted surfaces.

Do not allow water or other liquids to enter the electrical circuits, this may cause personal injury and/or damage to the equipment when power is applied.

NOTE: Leave machine on during the cleaning process.

After you are finished laminating prints, simply place the drain tube back into the original bottle of liquid coating and open the drain valve.

Next, close the drain valve and fill the lacquer tray to a depth close to the maximum depth line with water. Let the water “work” in the tray for approximately 10 minutes before draining. Blot dry with clean dry cloth.

Once a week,

Fill the lacquer tray with UltraCoat Cleaner and let run for approximately 10 minutes. For stubborn areas of coating build up, use a nylon bristle brush, applying pressure against the roller while in motion, to remove stuck on coating. Drain the cleaner back into the original jug for use at next cleaning. Run a final rinse cycle with water to neutralize cleaner. Allow the water to work for 10 minutes, then drain and blot dry

You may now turn off the power. The tray may be removed to facilitate this process, and the tray may be rinsed in a utility sink if available.

NOTE: If you blot the roller while still turning, be sure not to allow any loose ends of the cloth to wrap around the roller. Should this occur, immediately switch off the power and carefully pull to remove the cloth.

SERVICE & REPLACEMENT PARTS

Service and maintenance must be performed fully in accordance with the instructions. Servicing by any unauthorized technician voids the warranty. Service Technician must use replacement parts as specified by Neschen Accutech.

TECHNICAL SERVICE

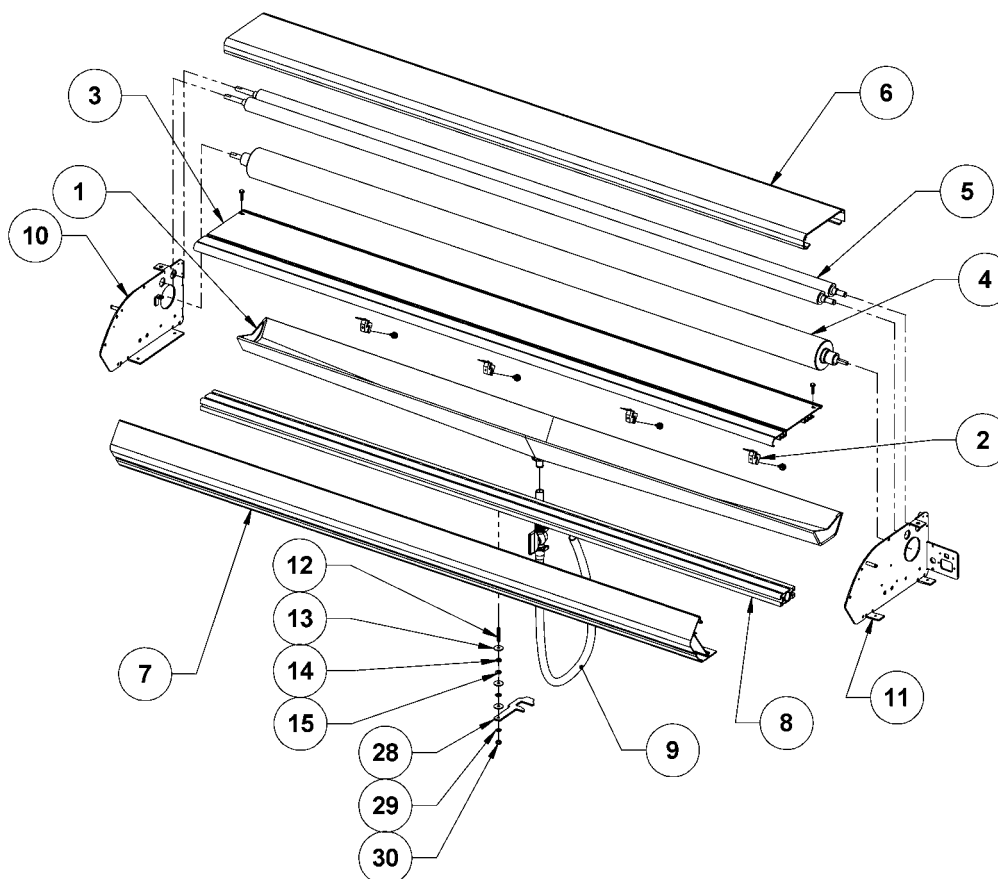
For technical assistance, please contact Neschen Accutech Technical Service Department. (See rear cover.) When calling for technical service please have the Coater serial number available (located on the identification plate on the bottom of main housing)

TECHNICAL SPECIFICATIONS

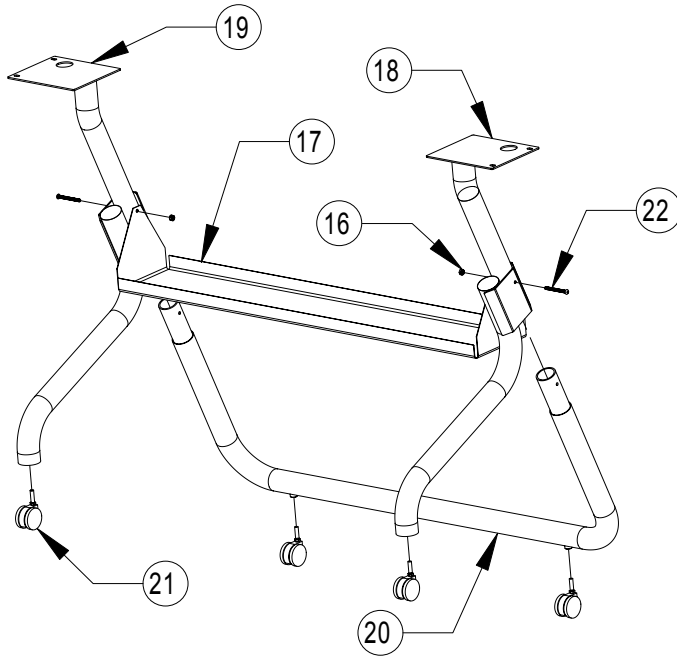
Dimensions (Coater only)	65 in. x 11 5/8 in. x 6 in. (1.65 M x 29.5 cm x 15.25 cm)
Shipping Dimensions (Coater only)	73 in. x 14 in. x 15 in. (1.85 M x 35.5 cm x 38 cm)
Net Weight (Coater only)	75 lbs. (165 kg)
Shipping Weight	80 lbs. (176 kg)
Nip Settings (Coater only)	0.020 in. (0.5 mm)
Electrical	115 VAC/1A/60Hz 230VAC/1A/50Hz
Order Code	63157 (115V) 63158 (230V)

Each Giclee Coater has a Serial Number Label. This label indicates the model type, the electrical requirements, and the coater serial number (important for reference if any servicing is required). The Serial Number Label is located on the bottom of the coating unit.

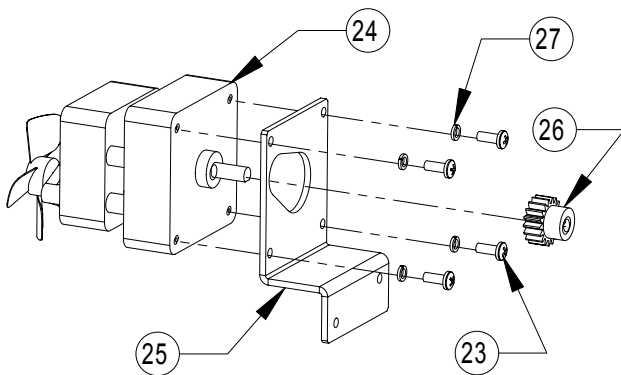
ROLLER ASSEMBLY



STAND ASSEMBLY

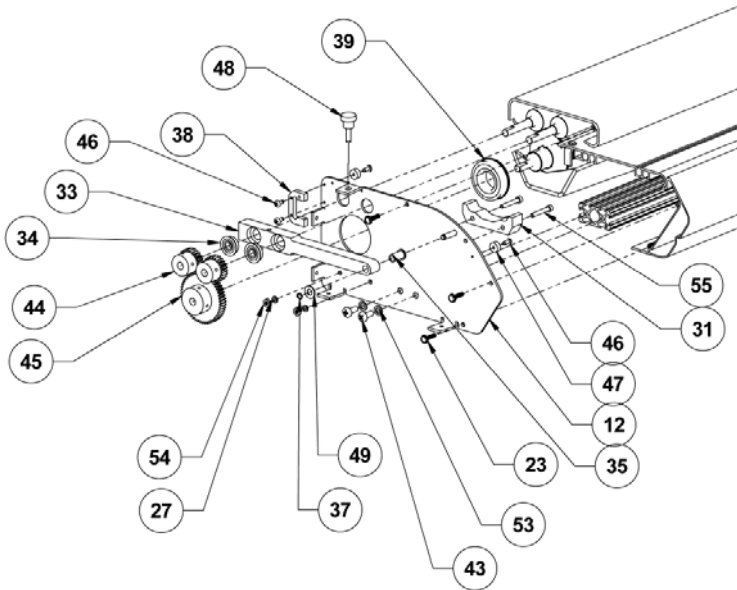


MOTOR ASSEMBLY

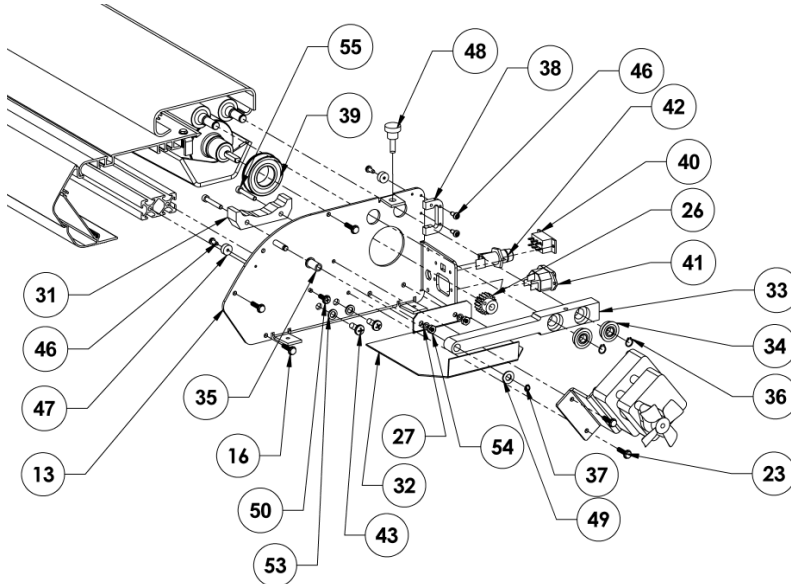


ITEM NO.	PART NO.	DESCRIPTION	QTY
1	7000235	LACQUER TRAY	1
2	7000255	STRIPPER ASSEMBLY	4
3	7000101	TABLE FEED-IN EXT	1
4	7000151	MEYER BAR ROLLER WIRE WRAP	1
5	7000110	ROLL NIP	2
6	7000103	TOP LID EXTRUSION	1
7	7000102	FRONT BAR EXTRUSION	1
8	7000122	RAIL EXTRUDED	1
9	7000179	HOSE ASSEMBLY W/BALL VALVE & CLAMP	1
10	7000205	PLATE ASSEMBLY LEFT SIDE	1
11	7000208	PLATE ASSEMBLY RIGHT SIDE	1
12	7000243	THREADED ROD	1
13	89000137	3/16 FENDER WASHER	3
14	A405100	10-32 NUT	1
15	7000244	DISC SPRING	2
16	7000210	1/4-20 KEPS NUT BLACK ZINC	2
17	7000139	SHELF STAND	1
18	7000191	LEG WELDMENT RIGHT HAND SIDE	1
19	7000192	LEG WELDMENT LEFT HAND SIDE	1
20	7000193	LEG WELDMENT STAND FRONT	1
21	7000196	CASTER TWIN WHEEL SWIVEL	4
22	7000198	1/4-20 X 2.5" BHC BLACK ZINC	2
23	7000209	SCREW, THREAD FRMNG 10-32X3/4"	18
24	7000175	MOTOR, DUAL VOLTAGE	1
25	7000143	PLATE MOUNTING MOTOR	1
26	7000121	GEAR 18T SPUR	2
27	A410101	#10 LOCK WASHER	8
28	7000242	LATCH	1
29	A410100	#10 FLAT WASHER	1
30	A405110	#10-32 NYLOCK NUT	1

LEFT SIDE GEAR ASSEMBLY



RIGHT SIDE GEAR ASSEMBLY



ITEM NO.	PART NO.	DESCRIPTION	QTY
31	7000239	TRAY BRACKET	2
32	7000202	SHIELD MOTOR	1
33	7000105	ARM, ADJUSTMENT	2
34	7000203	BEARING, BALL 3/8 ID X 7/8" OD	4
35	7000107	BUSHING, FLANGED 0.250" ID	2
36	7000158	RING EXTERNAL RETAINING	2
37	7000149	RING EXTERNAL RETAINING	2
38	7000104	STOP ADJUSTING ARM	2
39	7000204	BEARING, 1.0" ID X 2.0" OD	2
40	7000182	SWITCH, VOLTAGE SELECTOR	1
41	7000183	CONNECTOR, POWER ENTRY	1
42	88700509	FUSE HOLDER (FUSE - PN 7000164)	1
43	7000161	1/4-20 X 5/8" PHMS	4
44	7000111	GEAR 24T	2
45	7000112	GEAR 50T	1
46	7000155	SCREW 4 X 3/8"	8
47	7000109	BUMPER RECESSED RUBBER	4
48	7000108	KNOB ADJUSTMENT SS	2
49	79036	1/4" SAE FLAT WASHER	2
50	7000162	GROUND SCREW	1
51	7000129B	END COVER - RHS (NOT SHOWN)	1
52	7000126B	END COVER - LHS (NOT SHOWN)	1
53	A410103	1/4" LOCK WASHER	4
54	A405112	#10-32 HEX NUT	4
55	A430183	#10-32 X 1.25" BOLT	4

TROUBLE SHOOTING

Symptom	Issue	Solution
Tiny bubbles appear on substrate after it has dried	<ul style="list-style-type: none"> Liquid is being aerated Coating incompatibility with Inkjet Receptive Coating layer 	<ul style="list-style-type: none"> Allow liquid to settle prior to introducing print into coater Seal print before coating with UltraCoat Giclee Sealer (w/brush, roller or through Giclee coater)
Tiny lines appear very close together running same direction as image feed	<ul style="list-style-type: none"> Coating has thickened over time due to inactivity. Too much coating has been absorbed into the Inkjet Receptive Coating 	<ul style="list-style-type: none"> Ensure coater is not run without prints going through it for longer than 2 hours. If this occurs, drain coating back into original container and add ½ cup of distilled water until a coating viscosity of 17 +0/-1 seconds is reached using a #2 Zahn cup. Seal print before coating with UltraCoat Giclee Sealer (w/brush, roller or through Giclee coater). Allow the Sealer to dry for at least 1 hour prior to coating.
Ink bleeds, runs or smudges when coated	<ul style="list-style-type: none"> Substrate is not water-fast Ink is not water-fast 	<ul style="list-style-type: none"> Seal print before coating with UltraCoat Giclee Sealer (w/brush, roller or through Giclee coater) Allow the Sealer to dry for at least 1 hour prior to coating
Voids or streaks are left on substrate after being coated.	<ul style="list-style-type: none"> Coating has hardened on transfer roller Coating has transferred to nip guide rollers and allowed to dry 	<ul style="list-style-type: none"> Remove sealant tray. Spray the transfer roller with a Soy based deep cleaner. Let set for 15 to 20 minutes. Using a stiff nylon brush, turn on the machine, then apply the brush to the roller. Use a soft cloth and 90% alcohol to remove dried on coating from nip guide bars. NOTE: it is imperative that these bars remain clean !!
Glossy streaks appear ½” apart from one another after a period of time	<ul style="list-style-type: none"> Too much water has evaporated from coating 	<ul style="list-style-type: none"> Drain coating into container. Add distilled water ½ cup at a time until the proper viscosity (17 seconds +0/-1 in a #2 Zahn cup) has been reached.
Liquid runs off substrate excessively when removed from coater	<ul style="list-style-type: none"> Nip setting too large 	<ul style="list-style-type: none"> Readjust nip roller setting. Smaller number represents larger gap & visa versa.
Uneven Coating	<ul style="list-style-type: none"> Nip setting uneven 	<ul style="list-style-type: none"> Ensure that you have the same setting on both sides of coater. Turn both knobs CCW two full turns, then clockwise until the knob is snug. Note: knob should be on or near the #1 setting

LIMITED WARRANTY

Neschen Accutech warrants to the original consumer purchaser that each new Giclee Coater made by Neschen Accutech, which proves defective in materials or workmanship within the applicable warranty period, will be repaired or, at our option, replaced without charge.

Effective November 1st, 2005 the applicable warranty period for New Equipment shall be one year (parts) from date of purchase.

This warranty extends to and is enforceable only by the original consumer purchaser, and only for the period (during the applicable term), which the product remains in the possession of the original consumer purchaser. "Original consumer purchaser" means the person who first purchased the product covered by this warranty other than for purpose of resale. This warranty does not apply if it is found that at any time the equipment has not been used for its intended purpose.

For more information regarding this warranty, please contact your distributor.

WARNING: Any unauthorized changes or modifications to this unit without the prior written approval of Neschen Accutech will void the user's warranty and will transfer health and safety obligations to the user.

All rights are reserved. No part of the document may be photocopied, reproduced, or translated without the prior written consent of Neschen Accutech.

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

The information contained in this document is subject to change without notice and should not be construed as a commitment by Neschen Accutech.

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Giclee Coater Model 1371



Technical Service

(For technical assistance & service)

Tel: 1-888-490-4232

Customer Service

(For information and placing orders)

Tel: 1-888-490-4232

Fax: 1-410-579-8959

Note: Neschen Accutech recommends that a licensed electrician in accordance with electrical codes in your area install your main power.

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